

FIG. 1

	NO.	ALLOYS	COMPONENTS(%)							
			Si	Fe	Cu	Ti	Mn	Mg	Cr	Zn
ALLOYS OF THE INVENTION	1	A	4. 77	0. 26	0. 05	0. 04	0. 1	0. 3	0. 1	0. 01
	2	B	3. 82	0. 25	0. 01	0. 03	0. 1	0. 2	0. 1	0
	3	C	4. 86	0. 36	0. 15	0. 03	0. 1	0. 46	0. 1	0
	4	D	4. 59	0. 29	0. 15	0. 03	0. 1	0. 37	0. 1	0
	5	E	4. 11	0. 25	0. 07	0. 03	0. 05	0. 28	0. 05	0
	6	F	4. 93	0. 36	0. 19	0. 03	0. 15	0. 39	0. 14	0
	7	G	3. 85	0. 25	0. 21	0. 03	0. 46	0. 25	0. 1	0. 01
	8	H	4. 10	0. 26	0. 49	0. 03	0. 12	0. 3	0. 2	0. 01
	9	I	4. 53	0. 30	0. 32	0. 02	0. 15	0. 31	0. 45	0. 01
COMPARATIVE EXAMPLE	10	J	4. 32	0. 2	1. 02	0. 03	0. 14	0. 61	0. 13	0. 02

FIG. 2

NO.	ALLOYS	HOMOGE- NIZATION TEMPERATURE (°C)	HOMOGE- NIZATION TIME (h)	BILLET HEATING TEMPERATURE (°C)	EXTRUSION TEMPERATURE (°C)	ARTIFICIAL AGING TEMPERATURE (°C)	ARTIFICIAL AGING TIME (h)
1	A	470	12	470	500	195	5
2	B	470	12	470	495	190	6.5
3	C	470	12	470	500	170	3
4	D	510	6	470	500	170	4
5	E	510	6	470	495	170	4
6	F	510	6	470	500	170	4
7	G	490	8	470	500	175	4
8	H	490	8	470	500	175	4
9	I	490	8	470	500	175	4
10	J	470	12	470	500	175	3
ALLOYS OF THE INVENTION							
COMPARATIVE EXAMPLE							

FIG. 3

NO.	ALLOYS	EXTRUDABILITY (m/min)	HARDNESS	MECHANICAL PROPERTIES			COMPRESSIBILITY
				HRB HARDNESS (SURFACE)	TENSILE STRENGTH (MP a)	YIELD STRENGTH (MP a)	
1	A	5	51	285	241	10	49.2
2	B	6	36	269	214	11	51.6
3	C	5	65	324	270	11	48.8
4	D	5	56	306	274	12	47.2
5	E	6	43	265	222	13	53.9
6	F	5	57	308	270	12	43.1
7	G	5	44	272	235	11	44.5
8	H	5	48	279	238	11	49.0
9	I	5	53	293	256	12	49.8
10	J	3	64	349	274	11	40.0
ALLOYS OF THE INVENTION							
COMPARATIVE EXAMPLE							

FIG. 4

MULTIPLE REGRESSION ANALYSIS RESULT
(STANDARDIZED PARTIAL REGRESSION COEFFICIENT)

RESPONSE VARIABLE	EXPLANATORY VARIABLE							
	S i	F e	C u	T i	M n	M g	C r	Z n
TENSILE STRENGTH	—	—	—	-0.07	—	0.93	—	—
SURFACE HARDNESS	0.25	—	-0.44	—	—	1.19	—	—
CRITICAL UPSETTING RATIO	—	—	—	—	-0.79	-0.26	—	—

Title: WEAR-RESISTANT ALUMINUM ALLOY EXCELLENT IN CAULKING
PROPERTY AND EXTRUDED PRODUCT MADE THEREOF

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Atty. Ref.: 3599-000004/US/CO

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FIG. 5

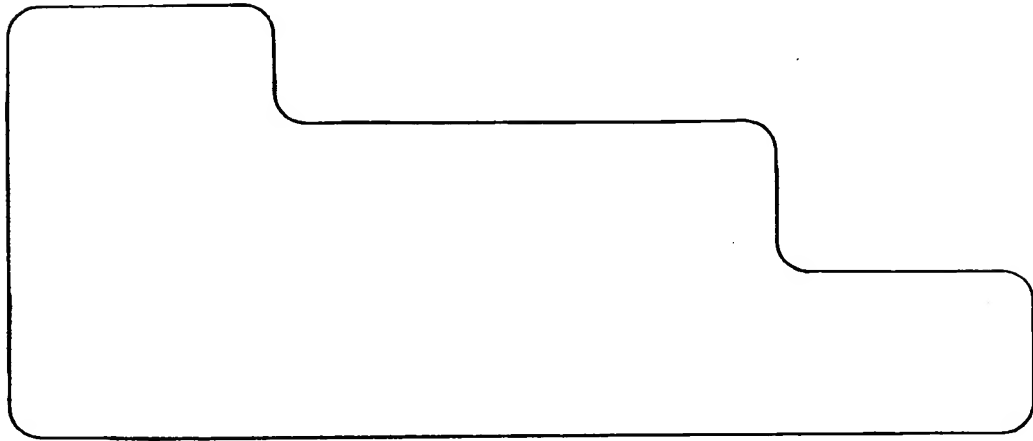


FIG. 6

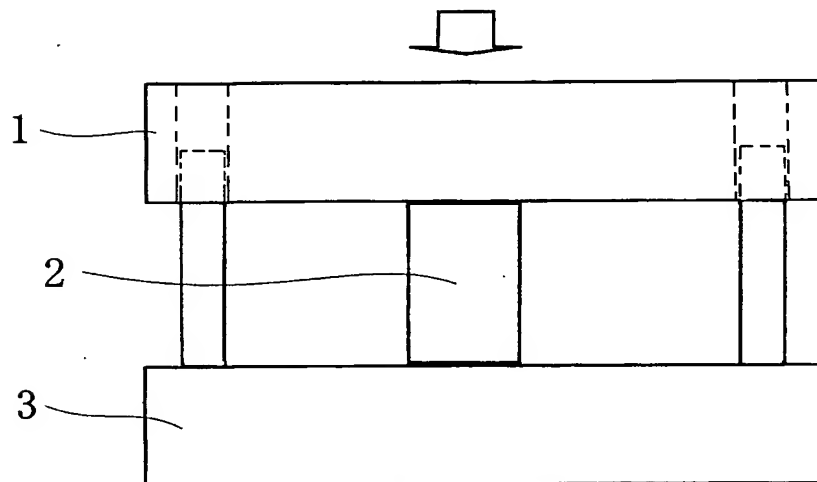


FIG. 7

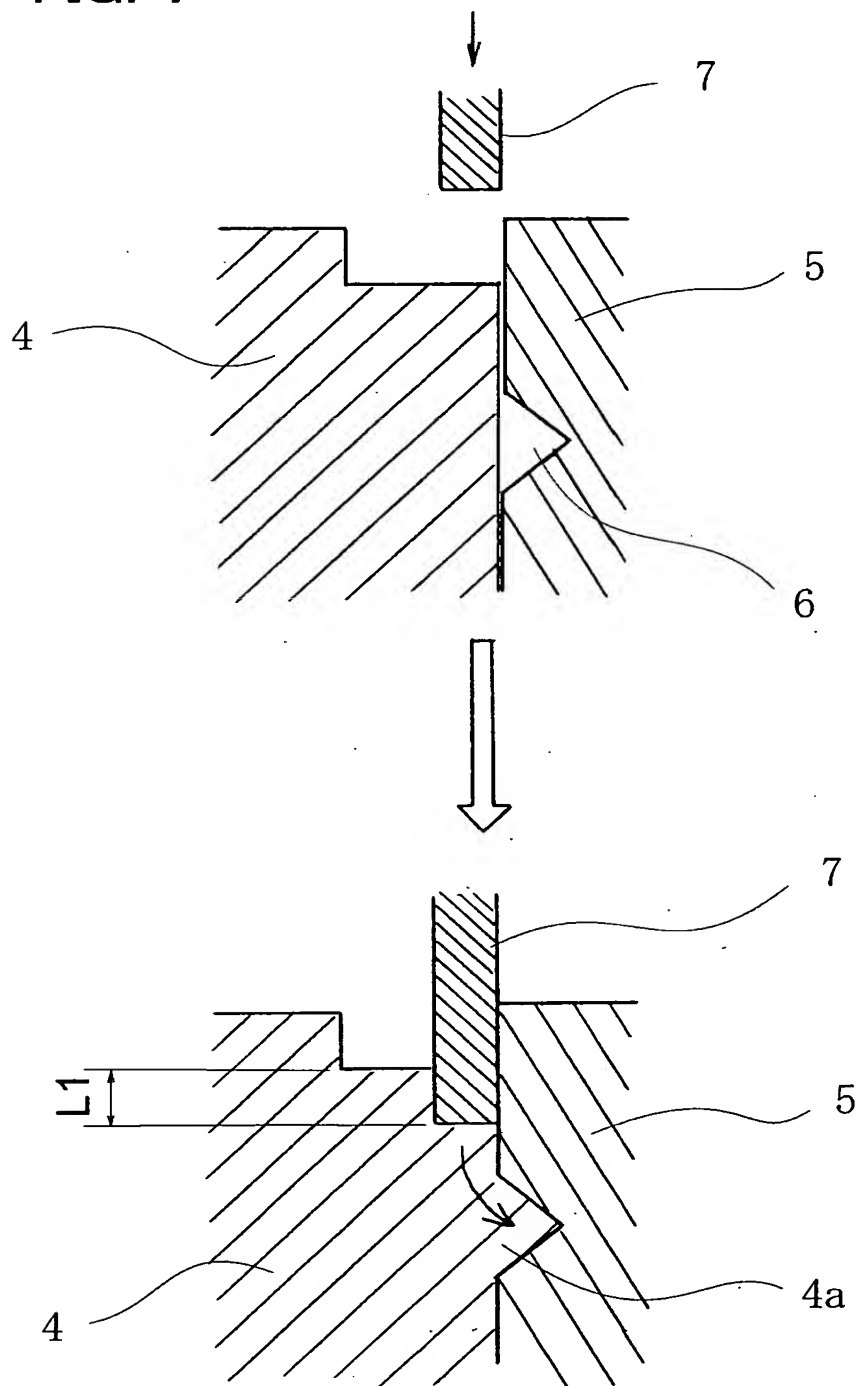


FIG. 8

